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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/813,562	03/30/2004	Walton Fong	HITG.048PA(0549)	4116	
7	7590 05/31/2006			EXAMINER	
Chambliss, Bahner & Stophel, P.C.			RODRIGUEZ, GLENDA P		
1000 Tallan Bi	uilding				
Two Union Square			ART UNIT	PAPER NUMBER	
Chattanooga,	Chattanooga, TN 37402			2627	
		D. TE. M. H. ED. 05/01/0006			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/813,562	FONG ET AL.
Office Action Summary	Examiner	Art Unit
	Glenda P. Rodriguez	2627
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICATIO R 1.136(a). In no event, however, may a reply be ti it. In this interpretation of the state o	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 0 2a) This action is FINAL . 2b) □ 3) Since this application is in condition for all closed in accordance with the practice und	This action is non-final. wance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-15 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction are subjection Papers	drawn from consideration.	
· · ·	-:	
9) The specification is objected to by the Exan 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the con 11) The oath or declaration is objected to by the	accepted or b) objected to by the the drawing(s) be held in abeyance. Se rrection is required if the drawing(s) is ob	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in Applicat priority documents have been receiv reau (PCT Rule 17.2(a)).	tion No red in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date		y (PTO-413) Date Patent Application (PTO-152)

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 4-7, 9-12, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Egan et al. (US Patent No. 7, 023, 632) in view of Haddock (US Patent No. 6, 707, 631).

Regarding Claim 1, Egan et al. teaches a method for minimizing the cycle time of a burnish test cycle, comprising:

Measuring an initial MR resistance for a head (Col. 2, L. 14-40 and Col. 4, L. 30-40, wherein the read or MR/write head is being monitored for its clearance towards the disk surface. According to the Applicant's Specification in Page 8, L. 7-10 and Page 11, L. 9-14);

Determining whether the measured MR resistance indicates the head has clearance (Col. 4, L. 60 to Col. 5, L. 33, wherein it teaches how the read heads detects the prevention of head to disk contact or PTP or clearance);

And completing the test cycle when the head is determined to have clearance (See Col. 7, L. 46-50 and Fig. 7).

However, Egan et al. does not explicitly teach performing an initial burnishing operation. This limitation is taught by Haddock in Col. 2, L. 27-44. It would have been obvious to a person of

ordinary skill in the art, at the time the invention was made, to modify Egan et al.'s invention with the teaching of Haddock in order to be able to prevent head to disk contact by the act of burnishing the head as disclosed in the Abstract of Haddock.

Claim (6) has limitations similar to those treated in the above rejection, and is met by the references as discussed above. Claim (6) however also recites the following limitations: a memory for storing data therein (Element 136 which is a storage disk).

Program storage device claim (11) is drawn to the device corresponding to the method of using same as claimed in claim (1). Therefore program storage device claim (11) correspond to method claim (1), and is rejected for the same reasons of obviousness as used above.

Regarding Claims 2, 7 and 12, the combination of Eganb et al. and Haddock teach all the limitations of Claims 1, 6 and 11, respectively. The combination further teach wherein:

Reducing the fly-height of the head when the measured MR resistance indicates the head not to have clearance (See Col. 7, L. 31-62, wherein it teaches that when the read head detects transitions which indicate improper head to disk clearance or PTP, it proceeds to burnish the head. See also Fig. 6);

Perform a subsequent burnish operation (See Col. 7, L. 31-62, Step 76 and Fig. 6);

Measuring the MR resistance again (See Fig. 6, wherein after burnishing Step 76, it proceeds to verify if the transitions are still unacceptable in Step 70.);

Application/Control Number: 10/813,562

Art Unit: 2627

And returning to determine whether the measured MR resistance indicates the head has clearance (See Fig. 6, Step 70 determines if the PTP or fly-height transitions are acceptable. See also Col. 7, L. 45-51).

Page 4

Regarding Claim 4, 9 and 14, the combination of Egan et al. and Haddock teaches all the limitations of Claims 1, 6 and 11, respectively. The combination further teaches comparing the MR resistance to a threshold (See Fig. 6, Step 70, wherein the read of MR transition values are compared to a threshold, thereby indicating a PTP or an unacceptable fly-height.)

Regarding Claims 5, 10 and 15, the combination of Egan et al. and Haddock teaches all the limitations of Claims 1, 6 and 11, respectively. The combination further teaches comparing the rate of change (the term "rate of change" and resistance is the same according to the Applicant's Specification in Page 14, L. 2-3. Hence, see Fig. 6, Step 70 and explanation of rejection to Claims 4, 9, and 14.).

3. Claims 3, 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Egan et al. and Haddock as applied to claims 2, 7 and 12, respectively above, and further in view of Smith (US Patent No. 6, 417, 981). The combination teaches all the limitations of Claims 2, 7 and 12, respectively. However, the combination does not explicitly teach wherein reducing the speed. This limitation is taught by Smith in the Abstract. It would have been obvious to a person of ordinary skill in the art, at the time the invention was made, to modify the combination's invention in order to measure the clearance between the head and the moving medium as taught by Smith in the Abstract.

Response to Arguments

Application/Control Number: 10/813,562

Art Unit: 2627

4. Applicant's arguments with respect to claims 1-15 have been considered but are moot

Page 5

in view of the new grounds of rejection due to the newly amended Claims 1-9 and 12-15. Claim

11 was not amended.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Glenda P. Rodriguez whose telephone number is (571) 272-7561.

The examiner can normally be reached on Monday thru Thursday: 7:00-5:00; alternate Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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05/17/06.

WAYNE YOUNG

SUPERVISORY PATENT EXAMINER